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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/017,805	10/30/2001	Shun-Li Lin	JCLA7245	9164	
7590 04/21/2004			EXAM	EXAMINER	
J.C. Patents, Inc.			THORNTON	, YVETTE C	
Suite 250 4 Venture			ART UNIT	PAPER NUMBER	
Irvine, CA 92	618		1752		

DATE MAILED: 04/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

				me					
٠- ا		Application No.	Applicant(s)	•					
		10/017,805	LIN ET AL.						
	Office Action Summary	Examiner	Art Unit						
		Yvette C. Thornton	1752						
Por	The MAILING DATE of this communication app iod for Reply	pears on the cover sheet wi	th the correspondence addres	SS					
	A SHORTENED STATUTORY PERIOD FOR REPLY	VIQ CET TO EVDIDE 2 MA	ONTH(S) EDOM						
	THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re y within the statutory minimum of thirt will apply and will expire SIX (6) MON , cause the application to become AB	eply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this commu ANDONED (35 U.S.C. § 133).	unication.					
Sta	tus								
	1) Responsive to communication(s) filed on 1/5/0	04.							
	,— · · ·	action is non-final.							
	3) Since this application is in condition for allowar	nce except for formal matte	ers, prosecution as to the me	erits is					
	closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dis	position of Claims								
	4) $\boxtimes$ Claim(s) <u>1-3 and 5-14</u> is/are pending in the apple	plication.							
	4a) Of the above claim(s) is/are withdraw								
	5) Claim(s) is/are allowed.								
	6)  Claim(s) <u>1-3 and 5-14</u> is/are rejected.								
	7) Claim(s) is/are objected to.								
	8) Claim(s) are subject to restriction and/o	r election requirement.							
Δрр	olication Papers								
	9) The specification is objected to by the Examine	er.							
	10)⊠ The drawing(s) filed on <u>10/30/01</u> is/are: a)□ accepted or b)□ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
1	1) The oath or declaration is objected to by the Ex	caminer. Note the attached	Office Action or form PTO-1	152.					
Pric	ority under 35 U.S.C. § 119								
	2)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. &	119(a)-(d) or (f).						
•	a)⊠ All b)□ Some * c)□ None of:	priority arraor of oronor 3							
	1.⊠ Certified copies of the priority document	s have been received.							
	2. Certified copies of the priority document		pplication No						
	3. Copies of the certified copies of the prior		• •	ge					
	application from the International Bureau	u (PCT Rule 17.2(a)).							
	* See the attached detailed Office action for a list	of the certified copies not	received.						
Atta	chment(s)								
1) [	Notice of References Cited (PTO-892)		Summary (PTO-413)						
<ul> <li>P) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> </ul>		. 🗂	s)/Mail Date  Informal Patent Application (PTO-152)	2)					
·, L	Paper No(s)/Mail Date	6)  Other:							

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### **DETAILED ACTION**

This is written in reference to application number 10/017805 filed on October 31, 2001 and published as US 2003/0022099 A1 on January 30, 2003.

### Response to Amendment

1. Claims 4 and 15-30 have been cancelled. Claims 1-3 and 5-14 are currently pending.

## Claim Interpretation

- 2. Claims 1-3 and 5-14 as written contain process limitations, which do not further limit the claimed product. Therefore, any method may be used to orient the material and the prior art is only required to be capable of being oriented to a specific direction under an electromagnetic field. Furthermore, the claims as written only require the polymer to be "able" to respond to a polarized light.
- 3. Applicant is advised that should claim 6 be found allowable, claim 8 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in

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section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3 and 5-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Bajikar et al. (US 6277539 B1). Bajikar teaches a microfabrication process wherein a buffer layer is applied to the upper surface of a substrate prior to the placement of a resist onto the said substrate. The said buffer is made of a low-Z material, which absorbs secondary X-rays emissions from the substrate that are generated from the substrate upon exposure to a primary X-ray source. The preferred material for the said buffer layer is synthesized from pyromellitic anhydride and oxydianiline (PMDA-ODA) (abstract). It is the examiner's position that the taught PMDA-ODA polymer meets the limitations of a linear polymer, which has a photosensitive section and an anti-etching section. The examiner is of the position that a PMDA-ODA polymer would readily be capable of being oriented to a specific direction under an electromagnetic field and also would be able to respond to a polarized light. The said polymer would also inherently have a maximum or minimum polarized light response under the conditions set forth in instant claim 3. The examiner further notes that exposure to X-ray radiation constitutes an electromagnetic field.

#### Response to Arguments

6. Applicant's arguments with respect to claims 1-3 and 5-14 have been considered but are of little moment in view of the new ground(s) of rejection.

#### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yvette C. Thornton whose telephone number is 571-272-

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1336. The examiner can normally be reached on Monday-Thursday from 8:00 am to 6:30

pm.

8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mark F. Huff, can be reached on 571-272-1385. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

9. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status information

for unpublished applications is available through Private PAIR only. For more information

about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access

to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197

(toll-free).

Yvette Clarke Thornton

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Patent Examiner

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yct

April 18, 2004